

CONTACT INFORMATION	Farmer School of Business, Room 3024 Miami University 800 E. High St. Oxford, OH, 45056, USA	arthur.carvalho@miamioh.edu www.arthurcarvalho.info +1 (513) 529 7162
RESEARCH INTERESTS	Artificial Intelligence, Blockchain, Business Analytics, Decision Analysis, Decision Sciences, Decision Support Systems, Prediction Markets	
TEACHING INTERESTS	Artificial Intelligence, Big Data, Business Analytics, Blockchain, Computer Networks, Database Systems, Information Security	
EDUCATION	Ph.D. in Computer Science University of Waterloo, Canada	August 2014
	M.Math. in Computer Science University of Waterloo, Canada	August 2010
	B.Sc. in Computer Science Federal University of Pernambuco, Brazil	December 2008
PROFESSIONAL EXPERIENCE	Dinesh & Ila Paliwal Innovation Chair Farmer School of Business Miami University, USA	July 2018 - Present
	Associate Professor (Tenured) Farmer School of Business Miami University, USA	July 2022 - Present
	Affiliate Faculty Member Department of Computer Science & Software Engineering Miami University, USA	November 2022 - Present
	Assistant Professor Farmer School of Business Miami University, USA	July 2016 - June 2022
	Assistant Professor Rotterdam School of Management Erasmus University Rotterdam, Netherlands	September 2014 - June 2016
	Research and Teaching Assistant David R. Cheriton School of Computer Science University of Waterloo, Canada	May 2009 - August 2014
	Data Mining Trainee Neurotech Ltda, Brazil	January 2008 - December 2008
	Software Engineering Intern Cemicro Informática, Brazil	September 2006 - November 2006

SERVICE AWARDS & HONORS	Creativity & Innovation Award Miami University	2022
	Prodesse Quam Conspici Award Miami University	2022
	Recognition by the Office of Miami University's President¹ Miami University	2019
TEACHING AWARDS & HONORS	Outstanding Professor Award (Nominee) Miami University Associated Student Government	2022
	Outstanding Professor Award (Nominee) Miami University Associated Student Government	2021
	Student Recognition of Teaching Excellence Award (Winner) The Office of the Provost, Miami University	2020
	Richard K. Smucker Teaching Excellence Award (Winner) Farmer School of Business	2020
	Outstanding Professor Award (Nominee) Miami University Associated Student Government	2019
	Richard K. Smucker Teaching Excellence Award (Nominee) Farmer School of Business	2019
	Faculty Commendation (×6) Center for Teaching Excellence, Miami University	2017 - 2021
	Professor of the Year Award (Nominee) RSM Student Representation	2016
	Professor of the Year Award (Winner) RSM Student Representation	2015
SCHOLARSHIP AWARDS & HONORS	Farmer School of Business Faculty Research Fellow Farmer School of Business	2023 - 2025
	Top 25% Paper 2022 Americas Conference on Information Systems	2022
	James Robeson Junior Faculty Research Excellence Award Farmer School of Business	2022
	Top 25% Paper 2021 Americas Conference on Information Systems	2021
	David R. Cheriton Scholarship University of Waterloo	2012 - 2014
	Mathematics Graduate Experience Award University of Waterloo	2010 - 2014
	David R. Cheriton Scholarship University of Waterloo	2010 - 2012

¹I was recognized and awarded a medal by Miami University's president during the One Miami Weekend event for my dedication to the students and university.

	Summer School on Algorithmic Economics²	2012
	Carnegie Mellon University	
	AAMAS Student Scholarship	2011
	International Foundation for Autonomous Agents and Multiagent Systems	
	AAMAS Student Scholarship	2010
	International Foundation for Autonomous Agents and Multiagent Systems	
	Graduate Entrance Scholarship	2009
	University of Waterloo	
	PIBIC Scholarship	2007 - 2008
	CNPq-Brazil	
	PIBIC Scholarship	2006 - 2007
	CNPq-Brazil	
GRANT RECORD	Supporting Big Data Skills Across Departments via Large-Scale Compute-Intensive Data Storage	2022
	Funding Agency: Miami University (Student Technology Fee Proposal)	
	Role: Co-applicant (together with Dr. Philippe Giabbanelli, Dr. John Femiani, Dr. Xianglong Feng, Dr. Chun Liang, and Dr. Jens Mueller)	
	Value: \$24,148	
	EY Cybersecurity Initiative Summer Research Grant	2022
	Funding Agency: Farmer School of Business	
	Role: Sole applicant	
	Value: \$5,000	
	Google Cloud Research Credits Program	2021
	Funding Agency: Google Cloud	
	Role: Sole applicant	
	Value: \$5,000	
	FSB Summer Research Grant	2021
	Funding Agency: Farmer School of Business	
	Role: Sole applicant	
	Value: \$10,000	
	The Blockathon — A Blockchain Hackathon	2019
	Funding Agency: Farmer School of Business (Strategic Initiatives Fund)	
	Role: Sole applicant	
	Value: \$3,6000	
	The 2020 MUBC Blockchain Conference	2019
	Funding Agency: Miami University (Career Grant Award)	
	Role: Sole applicant	
	Value: \$2,000	
	Blockchain and Business Applications – A New FSB Course	2018
	Funding Agency: Farmer School of Business (Strategic Initiatives Fund)	
	Role: Sole applicant	
	Value: \$15,071	

²I was one of the 13 international students selected to participate in the 2012 Summer School on Algorithmic Economics at Carnegie Mellon University.

- The 2019 MUBC Blockchain Conference** 2018
 Funding Agency: Farmer School of Business (John and Winifred Dolibois Fund)
 Role: Co-applicant (together with Patrick Young)
 Value: \$3,200
- Hadoop Infrastructure for Big Data Analytics** 2017
 Funding Agency: Miami University (Student Technology Fee Proposal)
 Role: Co-applicant (together with Dr. T. M. Rajkumar)
 Value: \$84,000
- A Study on the Strengths and Limitations of IBM Watson Analytics** 2017
 Funding Agency: Farmer School of Business (John and Winifred Dolibois Fund)
 Role: Sole applicant
 Value: \$2,400

REFEREED
 JOURNAL
 PUBLICATIONS

- [J1] Grgic, D., Podobnik, V., and Carvalho, A. “*Deriving and Validating Emotional Dimensions from Textual Data*,” **Expert Systems with Applications**, vol. 198, 116721, 2022.
- [J2] Babic, J., Carvalho, A., Ketter, W., and Podobnik, V. “*A Data-Driven Approach to Managing Electric Vehicle Charging Infrastructure in Parking Lots*,” **Transportation Research Part D: Transport and Environment**, vol. 105, 103198, 2022.
- [J3] Almeida, V. A. C. C., Rabelo, R. A. L., Carvalho, A., Rodrigues, J. J. P. C., and Solic, P. “*Aligning the Interests of Prosumers and Utilities through a Two-Stage Demand-Response Mechanism*,” **Journal of Cleaner Production**, vol. 323, 128993, 2021.
- [J4] Carvalho, A. and Karimi, M. “*Aligning the Interests of Newsvendors and Forecasters through Blockchain-Based Smart Contracts and Proper Scoring Rules*,” **Decision Support Systems**, vol. 151, 113626, 2021.
- [J5] Moore, J. F., Carvalho, A., Davis, G. A., Abulhassan, Y., and Megahed, F. M. “*Seat Assignments with Physical Distancing in Single-Destination Public Transit Settings*,” **IEEE Access**, vol. 9, p. 42985 – 42993, 2021.
- [J6] Carvalho, A. “*Bringing Transparency and Trustworthiness to Loot Boxes with Blockchain and Smart Contracts*,” **Decision Support Systems**, vol. 144, 2021.
- [J7] Carvalho, A., Merhout, J. W., Kadiyala, Y., and Bentley II, J. “*When Good Blocks Go Bad: Managing Unwanted Blockchain Data*,” **International Journal of Information Management**, vol. 57, 102263, 2021.
- [J8] Pevec, D., Babic, J., Carvalho, A., Ghiassi-Farrokhfal, Y., Ketter, W., and Podobnik, V. “*A Survey-Based Assessment of How Existing and Potential Electric Vehicle Owners Perceive Range Anxiety*,” **Journal of Cleaner Production**, vol. 276, 122779, 2020.
- [J9] Silva, I., Rabelo, R. A. L., Rodrigues, J. J. P. C., Solic, P., and Carvalho, A. “*A Preference-Based Demand Response Mechanism for Energy Management in a Microgrid*,” **Journal of Cleaner Production**, vol. 255, 120034, 2020.
- [J10] Carvalho, A. “*A Permissioned Blockchain-Based Implementation of LMSR Prediction Markets*,” **Decision Support Systems**, vol. 130, 113228, 2020.
- [J11] Carvalho, A., Sambhara, C., and Young, P. “*What the History of Linux Says About the Future of Cryptocurrencies*,” **Communications of the Association for Information Systems**, vol. 46., p. 18–29, 2020.

- [J12] Carvalho, A., Levitt, A., Levitt, S., Khaddam, E., and Benamati, J. “*Off-The-Shelf Artificial Intelligence Technologies for Sentiment and Emotion Analysis: A Tutorial on Using IBM Natural Language Processing*,” **Communications of the Association for Information Systems**, vol. 44, p. 918–943, 2019.
- [J13] Vroegindeweij, R. and Carvalho, A. “*Do Healthcare Workers Need Cognitive Computing Technologies? A Qualitative Study Involving IBM Watson and Dutch Professionals*,” **Journal of the Midwest Association for Information Systems**, vol. 6(1), p. 51–68, 2019.
- [J14] Carvalho, A., Dimitrov, S., and Larson, K. “*On Proper Scoring Rules and Cumulative Prospect Theory*,” **EURO Journal on Decision Processes**, vol. 6(3-4), p. 343–376, 2018.
- [J15] Pevec, D., Babic, J., Kayser, M. A., Carvalho, A., Ghiassi-Farrokhfal, Y., and Podobnik, V. “*A Data-Driven Statistical Approach for Extending Electric Vehicle Charging Infrastructure*,” **International Journal of Energy Research**, vol. 42, p. 3102–3120, 2018.
- [J16] Babic, J., Carvalho, A., Ketter, W., and Podobnik, V. “*Evaluating Parking Policies for Parking Lots Handling Electric Vehicles*,” **IEEE Access**, vol. 6(1), p. 944–961, 2018.
- [J17] Carvalho, A. “*On a Participation Structure that Ensures Representative Prices in Prediction Markets*,” **Decision Support Systems**, vol. 104, p. 13–25, 2017.
- [J18] Carvalho, A., Dimitrov, S., and Larson, K. “*Inducing Honest Reporting of Private Information in the Presence of Social Projection*,” **Decision**, vol. 4(1), p. 25–51, 2017.
- [J19] Carvalho, A. “*A Note on Sandroni-Shmaya Belief Elicitation Mechanism*,” **The Journal of Prediction Markets**, vol. 10(2), p. 14–21, 2016.
- [J20] Carvalho, A. “*An Overview of Applications of Proper Scoring Rules*,” **Decision Analysis**, vol. 13(4), p. 223–242, 2016.
- [J21] Carvalho, A., Dimitrov, S., and Larson, K. “*How Many Crowdsourced Workers Should a Requester Hire?*” **Annals of Mathematics and Artificial Intelligence**, vol. 78(1), p. 45–72, 2016.
- [J22] Carvalho, A. “*Tailored Proper Scoring Rules Elicit Decision Weights*,” **Judgment and Decision Making**, vol. 10(1), p. 86–96, 2015.
- [J23] Carvalho, A. and Larson, K. “*Sharing Rewards Among Strangers Based on Peer Evaluations*,” **Decision Analysis**, vol. 9(3), p. 253–273, 2012.

REFEREED BOOK
CHAPTERS

- [B1] Babic, J., Carvalho, A., Ketter, W., and Podobnik, V. “*Electricity Trading Agent for EV-enabled Parking Lots*,” **Agent-Mediated Electronic Commerce**. Series: Lecture Notes in Business Information Processing, vol. 271, Springer, p. 35–49, 2017.
- [B2] Carvalho, A., Dimitrov, S., and Larson, K. “*A Study on the Influence of the Number of MTurkers on the Quality of the Aggregate Output*,” **Multi-Agent Systems**. Series: Lecture Notes in Computer Science, vol. 8953, Springer International Publishing, p. 285–300, 2015.

- [C1] Cortez, V., Rabelo, R. A. L., Carvalho, A., and Pilloni, V. “*Towards Consumer-Oriented Demand Response Systems*,” in **Proceedings of the 7th International Conference on Smart and Sustainable Technologies**, 2022.
- [C2] Anderson, C., Carvalho, A., Merhout, J. *Patient Consent for Health Information Exchange: Blockchain-driven Innovation*. In **Proceedings of the 28th American Conference on Information Systems**, 2022.
- [C3] Folha, R., Times, V., Carvalho, A., Araújo, A., Viana, F., Couto, H. *Towards a Novel Business Process Model for Food Delivery Services Using Blockchain Technology*. In **Proceedings of the 28th American Conference on Information Systems**, 2022.
- [C4] Folha, R., Times, V., Carvalho, A., Araújo, A., Viana, F., Couto, H. *FoodChain: A Food Delivery Platform Based on Blockchain for Keeping Data Privacy*. In **Proceedings of the 27th International Conference on Database Systems for Advanced Applications**, 2022.
- [C5] Carvalho, A. and Xu, J. “*Studies on the Accuracy of Ensembles of Cloud-Based Technologies for Sentiment Analysis*,” in **Proceedings of the 27th American Conference on Information Systems**, 2021.
- [C6] Carvalho, A. and Karimi, M. “*How Blockchain Can Bring Trust and Transparency to the Payment of Crowd Forecasters*,” in **Proceedings of the 41st International Conference on Information Systems**, 2020.
- [C7] Silva, I. R. S., Rabelo, R. A. L., Rodrigues, J. J. P. C., and Carvalho, A. “*A Multi-Objective Approach for Energy Management in a Microgrid Scenario*,” in **Proceedings of the 5th International Conference on Smart and Sustainable Technologies**, Split, Croatia, 2020.
- [C8] Carvalho, A. and Harris, L. “*Off-the-Shelf Technologies for Sentiment Analysis of Social Media Data: Two Empirical Studies*,” in **Proceedings of the 26th American Conference on Information Systems**, USA, 2020.
- [C9] Pevec, D., Babic, J., Carvalho, A., Ghiassi-Farrokhfal, Y., Ketter, W., and Podobnik, V. “*Electric Vehicle Range Anxiety: An Obstacle for the Personal Transportation (R)evolution?*” in **Proceedings of the 4th International Conference on Smart and Sustainable Technologies**, Split, Croatia, 2019.
- [C10] Gilcrest, J. and Carvalho, A. “*Smart Contracts: Legal Considerations*,” in **Proceedings of the 2018 IEEE International Conference on Big Data**, p. 3277 – 3281, Seattle, USA, 2018.
- [C11] Jerdack, N., Dauletbek, A., Divine, M., Hult, M., and Carvalho, A. “*Understanding What Drives Bitcoin Trading Activities*,” in **Proceedings of the 2018 Annual Meeting of the Decision Sciences Institute**, p. 1864 – 1872, Chicago, USA, 2018.
- [C12] Carvalho, A. and Kroon, D. “*A Study on the Behavior of Crowd Workers when Reporting Forecasts under Proper Scoring Rules*,” in **Proceedings of the 24th American Conference on Information Systems**, New Orleans, USA, 2018.
- [C13] Pevec, D., Kayser, M. A., Babic, J., Carvalho, A., Ghiassi-Farrokhfal, Y., and Podobnik, V. “*A Computational Framework for Managing Electric Vehicle Charging Infrastructure*,” in **Proceedings of the 9th International Exergy, Energy and Environment Symposium**, p. 336-345, Split, Croatia, 2017.

- [C14] Carvalho, A. and Larson, K. “*A Consensual Linear Opinion Pool*,” in **Proceedings of the 23rd International Joint Conference on Artificial Intelligence**, p. 2518-2524, Beijing, China, 2013.
- [C15] Carvalho, A. and Larson, K. “*A Truth Serum for Sharing Rewards*,” in **Proceedings of the 10th International Conference on Autonomous Agents and Multiagent Systems**, p. 635-642, Taipei, Taiwan, 2011.
- [C16] Carvalho, A. and Oliveira, R. “*Reinforcement Learning for the Soccer Dribbling Task*,” in **Proceedings of the 2011 IEEE Conference on Computational Intelligence and Games**, p. 95-101, Seoul, South Korea, 2011.
- [C17] Carvalho, A. “*A Cooperative Coevolutionary Genetic Algorithm for Learning Bayesian Network Structures*,” in **Proceedings of the 13th Genetic and Evolutionary Computation Conference**, p. 1131-1138, Dublin, Ireland, 2011.
- [C18] Carvalho, A. and Larson, K. “*Sharing a Reward Based on Peer Evaluations*,” in **Proceedings of the 9th International Conference on Autonomous Agents and Multiagent Systems**, p. 1455-1456, Toronto, Canada, 2010.
- [C19] Oliveira, R., Adeodato, P., Carvalho, A., Viegas, I., Diego, C., and Ing-Ren, T. “*A Data Mining Approach to Solve the Goal Scoring Problem*,” in **Proceedings of the 22nd International Joint Conference on Neural Networks**, p. 2347–2352, Atlanta, USA, 2009.
- [C20] Carvalho, A. and Araujo, A. F. R. “*Improving NSGA-II with an Adaptive Mutation Operator*,” in **Proceedings of the 11th Genetic and Evolutionary Computation Conference**, p. 2697–2700, Montreal, Canada, 2009.

PROFESSIONAL
PUBLICATIONS

- [P1] Carvalho, A. “*Decision Analysis at Erasmus University Rotterdam*,” **Decision Analysis Today**, vol. 33(3), p. 15, 2015.
- [P2] Carvalho, A., Dimitrov, S., and Larson, K. “*The Output-Agreement Method Induces Honest Behavior in the Presence of Social Projection*,” **ACM SIGecom Exchanges**, vol. 13(1), p. 77-81, 2014.

INVITED TALKS

- Are Sentiment Scores Reliable Explanatory Variables?**
Miami University Symposium on Natural Language Processing and Simulation 2022
- A Blockchain-Based Protocol to Elicit, Verify, and Reward Forecasts**
INFORMS Annual Meeting 2022
- An Introduction to NFT – From Bored Apes to the Metaverse**
Miami University Alumni College 2022
Phi Gamma Nu Business Fraternity 2022
- Aligning the Interests of Newsvendors and Forecasters through Blockchain-Based Smart Contracts and Proper Scoring Rules**
University of North Texas (G. Brint Ryan College of Business) 2022

	An Introduction to Blockchain Technology: Definitions, Applications, and Challenges	2021
	ENUCOMPI/SINFO Symposium	
	A Gentle Introduction to Bitcoin	2021
	Granville Public Library	
	Miami University Alumni Engagement	2021
	Bringing Transparency and Trustworthiness to Loot Boxes with Blockchain and Smart Contracts	
	EY Coffee & Blockchain meeting	2021
	What is Blockchain and Cryptocurrency?	
	Miami University Blockchain Club	2019
	On Proper Scoring Rules and Cumulative Prospect Theory	
	Miami University (Farmer School of Business)	2015
	Kent State University (College of Business Administration)	2015
	INFORMS Annual Meeting (Decision Analysis Society Sponsored Session)	2014
	Inducing Honest Behavior on Amazon's Mechanical Turk	
	Erasmus University (Rotterdam School of Management)	2014
	University of Montana (Department of Computer Science)	2014
INVITED PANELS	Teaching Effectiveness Workshop	2020
	Miami University (Farmer School of Business)	
	An Interdisciplinary Examination of Blockchain Systems	2019
	Miami University Blockchain Conference	
WORKSHOPS	The Scientific Method (Communication Component)	
	Universidade Federal do Piauí	2021
	A Gentle Introduction to Ethereum: From Tokens to DeFi	
	Universidade Federal do Piauí	2020
	A Gentle Introduction to Ethereum	
	27th American Conference on Information Systems	2021
	Universidade Federal de Pernambuco	2021
	Universidade Federal do Piauí	2020
	Miami University (ISA Seminar Series)	2020
	Annual Meeting of the Decision Sciences Institute	2019
CONFERENCE PRESENTATIONS (SPEAKER)	A Blockchain-Based Protocol to Elicit, Verify, and Reward Forecasts	
	INFORMS Annual Meeting	2022
	Towards a Novel Business Process Model for Food Delivery Services Using Blockchain Technology	
	28th American Conference on Information Systems	2022

Studies on the Accuracy of Ensembles of Cloud-Based Technologies for Sentiment Analysis	
27th American Conference on Information Systems	2021
Off-the-Shelf Technologies for Sentiment Analysis of Social Media Data: Two Empirical Studies	
26th American Conference on Information Systems	2020
How Blockchain Can Bring Trust and Transparency to the Payment of Crowd Forecasters	
41st International Conference on Information Systems	2020
ECIS Blockchain Research eWorkshop	2020
When Good Blocks Go Bad: Dealing with Unwanted Blockchain Data	
2019 Annual Meeting of the Decision Sciences Institute	2019
Understanding What Drives Bitcoin Trading Activities	
2018 Annual Meeting of the Decision Sciences Institute	2018
A Study on the Behavior of Crowd Workers when Reporting Forecasts under Proper Scoring Rules	
24th American Conference on Information Systems	2018
Should Prosumers Form Renewable Energy Cooperatives? A Case Study	
Policy, Awareness, Sustainability and Systems (PASS) Workshop	2016
Determining the Ideal Number of Crowd Workers Based on an Outlier Analysis of the Error Curve	
2015 INFORMS Conference on Information Systems and Technology	2015
How Many Crowd Workers Should a Requester Hire on Amazon Mechanical Turk?	
INFORMS Annual Meeting	2015
27th European Conference on Operational Research	2015
A Study on the Influence of the Number of MTurkers on the Aggregate Output's Quality	
12th European Conference on Multi-Agent Systems	2014
INFORMS Advances in Decision Analysis	2014
A Consensual Linear Opinion Pool	
23rd Int'l Joint Conference on Artificial Intelligence	2013
University of Waterloo Cheriton Research Symposium	2013
On an Automated Market Maker with Price Convergence Guarantees	
INFORMS Annual Meeting	2013
A Truth Serum for Sharing Rewards	
10th Int'l Conference on Autonomous Agents and Multiagent Systems	2011
University of Waterloo Graduate Student Research Conference	2011
Reinforcement Learning for the Soccer Dribbling Task	
IEEE Conference on Computational Intelligence and Games	2011

On a Reliable Peer-Review Process	2011
University of Waterloo Cheriton Research Symposium	
A Cooperative Coevolutionary Genetic Algorithm for Learning Bayesian Network Structures	2011
13th ACM Genetic and Evolutionary Computation Conference	
Improving NSGA-II with an Adaptive Mutation Operator	2009
11th ACM Genetic and Evolutionary Computation Conference	
Sharing a Reward Based on Peer Evaluations	2009
9th Int'l Conference on Autonomous Agents and Multiagent Systems	

TEACHING
EXPERIENCE

Farmer School of Business, Miami University

Independent Studies (B.Sc.)

- Delivery mode: face-to-face

Business Analytics (B.Sc.)

- Delivery mode: hybrid and online (synchronous)

Database Systems (B.Sc.)

- Delivery mode: face-to-face, hybrid, and online (asynchronous)

Blockchain and Business Applications (B.Sc.)

- Delivery mode: face-to-face

Managing Big Data (B.Sc./M.Sc.)

- Delivery mode: face-to-face and online (synchronous)

Rotterdam School of Management, Erasmus University

Big Data and Business Analytics (M.Sc.)

- Delivery mode: face-to-face

Applied Business Methods (B.Sc.)

- Delivery mode: face-to-face

THESIS
SUPERVISION

Ph.D. in Computer Science, Universidade Federal do Piauí

Vitor Cortez

- Thesis: TBD
- Co-supervisor: Dr. Ricardo de Andrade

2021 - Present

Executive MBA, Rotterdam School of Management

Vikas Sachar

- Thesis: *Advanced Analytics @ Scale*
- Industrial partner: *Unilever*

2015

Sander Barake

- Thesis: *KPN: Riding the Big Data Wave*
- Industrial partner: *Koninklijke KPN N.V.* (KPN)

2015

Tekin Menten 2015
 - Thesis: *From SILOS to Synergy: Enabling Continuous Improvement in Performance Management through BICC*
 - Industrial partner: *Acelity*

M.Sc. in Business Information Management, Rotterdam School of Management

Vadim Galaktionov 2015 - 2016
 - Thesis: *On the Economic Value of Renewable Energy Cooperatives*

Thanasis Zias 2015 - 2016
 - Thesis: *Sales Forecasting Methods in the Pharmaceutical Industry*
 - Industrial partner: *Gerolymatos International*

Masih Nassiri 2015 - 2016
 - Thesis: *Sustainable Mortgage Debt Recovery: A Myth?*
 - Industrial partner: *ING*

Shanise Abhelakh 2015 - 2016
 - Thesis: *The Added Value of Mobile Data in Transaction Monitoring*
 - Industrial partner: *Deloitte and Bunq*

Oumaima Ouari 2015 - 2016
 - Thesis: *Waste Management and Marketing: A Customer-Centric Approach*
 - Industrial partner: *L'Oréal*

Martin Kayser 2015 - 2016
 - Thesis: *A Data-Driven Approach to Modeling Charging Station Utilization Levels by Plug-In Electric Vehicles Type Charging Behavior and Point of Interests*

Meral Akkurt 2015 - 2016
 - Thesis: *Defining the Factors That Influence the Effective Use of Business Intelligence & Analytics*
 - Industrial partner: *Microsoft*

Thomas Gratzmüller 2015 - 2016
 - Thesis: *Analysis of the Influence of Health Awareness on Online Health Information Seeking and its Perceived Risks*

Maxim Grgurevic 2015 - 2016
 - Thesis: *On the Validity of the Social Projection Assumptions in the Output Agreement Method*

Dennis Huisman Sigcha 2015 - 2016
 - Thesis: *Distance-Oriented Linear Opinion Pools*

Max van Hilten 2015 - 2016
 - Thesis: *The Interpretation of the General Data Protection Regulation by Dutch Data Intensive Start-ups*
 - Industrial partner: *KPMG*

Roxanne Vroegindeweij 2015 - 2016
 - Thesis: *Technology Adoption in the Healthcare Industry*
 - Industrial partner: *IBM*

Luut Willen 2014 - 2015
 - Thesis: *Are Dutch Leading B2B Industrial Manufacturing and Components Companies "Future-Proof"?*
 - Industrial partner: *Itelligence*

Jeroen van Peer 2014 - 2015
 - Thesis: *Reviewing Applications of Proper Scoring Rules*

Bart van Hout	2014 - 2015
- Thesis: <i>The Crowd or the Past?</i>	
Denise Kroon	2014 - 2015
- Thesis: <i>A Study of the Effects of Proper Scoring Rules on Risk Neutrality when Stakes are Low</i>	
Bas Willemsen	2014 - 2015
- Thesis: <i>Can Crowds Make Reliable Predictions?</i>	
Kas Zuyderwijk	2014 - 2015
- Thesis: <i>Crowdsourcing Predictions</i>	
Esther Hundepool	2014 - 2015
- Thesis: <i>Risk and Trust Perception: Influences on the Willingness-To-Buy in Electronic Commerce in the Retail Industry</i>	
- Industrial partner: <i>PwC</i>	
Sebastian Buurman	2014 - 2015
- Thesis: <i>Do Scoring Rules Improve Forecast Accuracy in Prediction Markets? An Empirical Comparison of Two Markets</i>	
Mick van Elswijk	2014 - 2015
- Thesis: <i>Eliciting and Aggregating Private Information: Prediction Markets Vs. Proper Scoring Rules</i>	
Vlad Masek	2014 - 2015
- Thesis: <i>Recommendation Engines in the Digital Era: A Data-Driven Design</i>	

THESIS READING AND COMMITTEE MEMBERSHIP External Ph.D. Committee Member

Hrvoje Vdović	2022
- Supervisor: Dr. Jurica Babic	
- Institution: Faculty of Electrical Engineering and Computing, University of Zagreb	
Dario Pevec	2018
- Supervisor: Dr. Vedran Podobnik	
- Institution: Faculty of Electrical Engineering and Computing, University of Zagreb	

Doctoral Qualifying Exam

Damir Kopljar	2022
- Supervisor: Dr. Vedran Podobnik	
- Institution: Faculty of Electrical Engineering and Computing, University of Zagreb	
Demijan Grgić	2019
- Supervisor: Dr. Vedran Podobnik	
- Institution: Faculty of Electrical Engineering and Computing, University of Zagreb	
Hrvoje Vdović	2019
- Supervisor: Dr. Jurica Babic	
- Institution: Faculty of Electrical Engineering and Computing, University of Zagreb	
Dario Pevec	2017
- Supervisor: Dr. Vedran Podobnik	
- Institution: Faculty of Electrical Engineering and Computing, University of Zagreb	

M.Sc. in Business Information Management, Rotterdam School of Management

- Fiero Amier** 2015 - 2016
- Thesis: *The Role of Complexity and Stakes in Individual-Level Decision Making in Online Environments*
- Supervisor: Dr. Rodrigo Belo
- Amy Zhou** 2015 - 2016
- Thesis: *Does the Usage of Facebook and Blackboard Contribute to Your Performance and Integration?*
- Supervisor: MSc. A.P. Simons
- Nienke Hoogeveen** 2015 - 2016
- Thesis: *The Skills of online workers and the influence of fairness on performance*
- Supervisor: Dr. Mark Boons
- Spyros Lagkaditis** 2014 - 2015
- Thesis: *The Impact of Different Versions of Feedback on Household Energy Consumption in the Netherlands*
- Supervisor: Dr. Dimitrios Tsekouras
- Industrial partner: CGI
- Tu Anh Thang** 2014 - 2015
- Thesis: *Identifying User Segments and Patterns in Dutch Driving Behavior*
- Supervisor: Dr. Wolfgang Ketter
- Derrick Dikkers** 2014 - 2015
- Thesis: *Using Electric Vehicles to Regulate Energy Markets: A Time Series Analysis*
- Supervisor: M.Sc. Micha Kahlen
- Fabian Lanz** 2014 - 2015
- Thesis: *Electric Vehicle User Behavior: Using Machine Learning to Predict Charging in Smart Energy Markets*
- Supervisor: Dr. Ksenia Koroleva

M.Sc. in Computer Science, Miami University

- Monu Chaudhary** 2022 - present
- Thesis: *TBD*
- Supervisor: Dr. Suman Bhunia

ACADEMIC &
PROFESSIONAL
SERVICE

Advisory Boards

- Ephycent 2021 – 2022
Virtual Blockchain Conference 2020
OhioX 2019 – 2022
Cambridge Scholars Publishing (Decision Science domain) Since 2017

Consulting Work & Collaboration with Industry

- Global Blockchain Business Council 2021
- Partner of the Global Standards Mapping Initiative (GSMI) 2.0 fellows program.

- Cardinal Health 2020
- In a partnership between the Center for Analytics & Data Science (CADS) at Miami University and Cardinal Health, I led the development of a blockchain project to track drugs in the pharmaceutical supply chain.
- Red Line Editorial, Inc. 2018
- I worked with Red Line Editorial, Inc. as a content consultant for the book “Cryptocurrency,” written for grades 3 to 6 by Kate Conley.

Editorial Boards

International Journal of Decision Support System Technology	2018 - 2022
International Journal of Business and Data Analytics	Since 2017

Guest Editor

- Electronic Markets 2022
- “Enterprise and Organizational Applications of Distributed Ledger Technologies”

Guest Associate Editor

- Decision Support Systems 2023
- “Blockchain Technology and Applications”

Ad-Hoc Referee and Reviewer for Academic Journals

AIS Transactions on Human-Computer Interaction
 Communications of the Association for Information Systems
 Decision
 Decision Analysis
 Decision Support Systems
 Engineering Applications of Artificial Intelligence
 European Journal of Information Systems
 European Journal of Operational Research
 Environment, Systems and Decisions
 Human Computation
 IEEE Transactions on Engineering Management
 IEEE Transactions on Systems, Man and Cybernetics: Systems
 Information Systems Journal
 Information Systems Research
 International Journal of Decision Support System Technology
 JMIR mHealth and uHealth
 Journal of Artificial Intelligence Research
 Management Information Systems Quarterly
 Management Science
 Natural Computing
 Operations Research

Ad-Hoc Referee and Reviewer for Funding Agencies

Social Sciences and Humanities Research Council of Canada (SSHRC)

Conference Program Committee (Role: Conference Chair)

2016 Energy Informatics & Management	2016
2015 Energy Informatics & Management	2015

Conference Program Committee (Role: Track Chair)	
2018 Workshop on Blockchain and Smart Contract	2018
Conference Program Committee (Role: Associate Editor)	
2023 European Conference on Information Systems	2023
18th International Conference on Wirtschaftsinformatik	2023
2022 International Conference on Information Systems	2022
2022 European Conference on Information Systems	2022
Conference Program Committee (Role: Reviewer)	
6th Annual Workshop on Applications of AI in the Legal Industry	2022
56th Hawaii International Conference on System Sciences	2022
2022 International Conference on Information Systems	2022
5th Annual Workshop on Applications of AI in the Legal Industry	2021
55th Hawaii International Conference on System Sciences	2021
27th Americas Conference on Information Systems	2021
4th Annual Workshop on Applications of AI in the Legal Industry	2020
41st International Conference on Information Systems	2020
3rd Annual Workshop on Big Data Analytics in the Legal Industry	2019
27th European Conference on Information Systems	2019
2nd Annual Workshop on Big Data Analytics in the Legal Industry	2018
24th Americas Conference on Information Systems	2018
13th German Conference on Multiagent System Technologies	2015
14th Int'l Conf. on Autonomous Agents and Multiagent Systems	2015
17th Int'l Conf. on Principles and Practice of Multi-Agent Systems	2014
6th Int'l Conf. on Adv. Cognitive Tech. and Applications	2014
16th Int'l Conf. on Principles and Practice of Multi-Agent Systems	2013
15th Int'l Conf. on Principles and Practice of Multi-Agent Systems	2012
21st International Joint Conference on Artificial Intelligence	2011

UNIVERSITY SERVICE	Faculty Search Committee (Cmte. Chair), Farmer School of Business	Fall 2022
	Best Practices in Future Teaching Committee , Farmer School of Business	2021
	Faculty Adviser , Miami University CyberSecurity Club	2020 - 2021
	Major/Minor Coord. Committee , Farmer School of Business	2019 - present
	Faculty Search Committee , Farmer School of Business	Fall 2019
	Technology Policies Committee , Farmer School of Business	2018 - 2022 (x4)
	Strategic Technology Committee , Farmer School of Business	2018 - 2020
	Faculty Adviser , Miami University Blockchain Club	2017 - present
	Faculty Search Committee , Farmer School of Business	Fall 2017
	STAR Seminar Series Organizing Committee , Miami University	2016 - 2017
	Graduate Recruiting Committee , University of Waterloo	2013 - 2014
	Global Representative Program , University of Waterloo	2013 - 2014
	Computer Science Commons Committee , University of Waterloo	2011 - 2012

MEDIA MENTIONS	• Bloomberg	
	- <i>"Stanford Grads Get School's Backing for Blockchain Startup"</i>	2019
	• FSB News	
	- <i>"FSB professor: Cryptocurrency crash will likely lead to regulations"</i>	2022
	- <i>"NFTs: What they are, and what they could be"</i>	2022
	- <i>"Blockchain takes center stage at Miami conference"</i>	2019
	- <i>"Students in hackers' crosshairs at IBM Cyber Range Center"</i>	2019

	<ul style="list-style-type: none"> - <i>“Arthur Carvalho named as first Dinesh & Ila Paliwal Innovation Chair”</i> 2019 - <i>“Farmer School team tops among colleges at Blockland Hackathon”</i> 2018 - <i>“Club explores blockchain technology’s potential beyond Bitcoin”</i> 2018 - <i>“Students use IBM Watson tech to build and balance big data”</i> 2017
	<ul style="list-style-type: none"> • Inside Higher ED <ul style="list-style-type: none"> - <i>“Blockchain Gains Currency in Higher Ed”</i> 2018 • IoT World Today <ul style="list-style-type: none"> - <i>“How Blockchain Technology Can Benefit the Internet of Things”</i> 2021 • Lifewire <ul style="list-style-type: none"> - <i>“How Blockchain Could Transform Virtual Reality”</i> 2021 • Poets & Quants <ul style="list-style-type: none"> - <i>“AI Is Coming. What Does That Mean For Business Education?”</i> 2018 • Point2Homes <ul style="list-style-type: none"> - <i>“What You Lost by Not Investing in Bitcoin or Real Estate”</i> 2021 • Protocol <ul style="list-style-type: none"> - <i>“One big question: What’s the ideal EV range?”</i> 2022 • Supply Chain Dive <ul style="list-style-type: none"> - <i>“Blockchain drives transparency in the supply chain”</i> 2022 • The Journey <ul style="list-style-type: none"> - <i>“Beyond Bitcoin”</i> 2019
PROGRAMMING SKILLS	C/C++, Java, JavaScript (Node.js), Maple, Matlab, Python, R, Solidity, SQL, PL/SQL
INFORMATION SYSTEM TECHNOLOGIES	Blockchain (Algorand, Bitcoin, Ethereum, Multichain, and Hyperledger Fabric) Cloud Platforms (Amazon AWS, Google Cloud, IBM Cloud, Microsoft Azure) Relational databases (Oracle XE, MySQL) Document-oriented databases (MongoDB) Hadoop environment (HDFS, MapReduce, Sqoop, Hive, Spark) Statistical Software JMP Pro, SPSS Statistics
PROFESSIONAL CERTIFICATIONS AND CERTIFICATES	ICAgile Certified Professional , ICAgile 2019 Fundamentals of University Teaching , University of Waterloo 2013 Student Leadership Program , University of Waterloo 2012 Sun Certified Mobile Application Developer (SCMAD, Java 2 Platform) 2005 Sun Certified Programmer for the Java 2 Platform (SCJP, SE 1.4) 2005
PROFESSIONAL MEMBERSHIPS	AIS - Association for Information Systems AIS SIG BIT - AIS Special Interest Group on Blockchain Innovations and Technologies AIS SIG DSA - AIS Special Interest Group on Decision Support and Analytics AIS SIG Green - AIS Special Interest Group on Green IT INFORMS - Institute for Operations Research and the Management Science INFORMS ISS - Information Systems Society

LANGUAGE	Portuguese (native)
SKILLS	English (fluent)
	Spanish (intermediate)

REFERENCES	Available upon request.
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